

Attorney Docket No. P66403US0  
Serial No. 09/744,973

**Amendments to the claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims**

Claims 1-8 (cancelled)

Claim 9 (new) A method for the production of a fibrin sealant comprising fibrinogen multimers having at least 6 fibrinogen units comprising the steps of

- obtaining a mixture by
  - resuspending cryoprecipitate
  - adding sucrose powder to yield a sucrose/mixture concentration of 60 to 70% (w/w),  
and
  - adding glycine powder to yield a glycine/mixture concentration of 0.1 to 0.3 M,
- heating to 60°C for 15-20 hours,
- removing the glycine and the sucrose by dialysis, and
- adding a protease inhibitor.

Claim 10 (new) The method of claim 9, wherein the dialysis is conducted against a buffer comprising NaCl, glycine, and CaCl<sub>2</sub>.

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Claim 11 (new) The method of claim 9, wherein the protease inhibitor is tranexamic acid in a concentration of 8-12% (w/w) and/or arginine in a concentration of 1-3% (v/w).

Claim 12 (new) A fibrin sealant comprising multimeric fibrinogen having at least 6 fibrinogen units.

Claim 13 (new) The fibrin sealant of claim 12, wherein 6-15 fibrinogen units are present in the multimeric fibrinogen.

Claim 14 (new) The fibrin sealant of claim 12, wherein 6-9 fibrinogen units are present in the multimeric fibrinogen.

Claim 15 (new) The fibrin sealant of claim 12, wherein multimeric fibrinogen having 6-9 fibrinogen units is present in an amount of at least 5% (w/w) of total fibrinogen content.